Tactical Unmanned Ground Vehicle (TUGV) Non-Lethal Weapons (NLW) Payload

Briefed by

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POM-06 Command Element Advocacy Board (CEAB)

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REQUIREMENT DESCRIPTION:

- USMC TUGV Operational Requirements Document directs development of a non-lethal payload
- The TUGV will be equipped with a non-lethal payload(s) to assist Marines with crowd control and area denial to personnel mission tasks identified in the Joint Mission Area Analysis.
- The non-lethal payload(s) will be modular and expandable:
  - Facilitate development and integration of future payload modules and advances in technology.
  - Plug-and-fight configuration allows the user to remotely employ non-lethal weapons payloads.
  - Modules will be simple to install in a field environment.
  - Allows Marines to tailor capabilities to best meet mission requirements

CAPABILITY PROVIDED:.

- Crowd Control
- Area Denial
- Perimeter/Port/Air Field Security
- MSR Security
- Interrogation to Determine Intent

URGENCY TO COMPETE IN POM06:

- Failure to develop a NL payload in parallel with the TUGV will increase cost, technical, and programmatic risk:
  - Degrades ability to conduct combined operational assessments at a substantial cost savings.
  - Degrades ability to influence the design of the Gladiator system, leading to systemic technical risk and increased costs associated with trying to integrate a payload at the last minute.
  - Increases programmatic risk of not having NL payload ready at time of Gladiator fielding.
  - Increases technical risk due to less time available for System Development & Demonstration.
- The development of a non-lethal payload parallel with the development of the TUGV presents the opportunity to provide the operating forces with a substantial improvement over its current non-lethal capability within the next four years.

STATUS OF REQUIREMENTS DOCUMENTATION (ICD, CCD, MNS ORD, SON):

-The Gladiator TUGV Operational Requirements Document (ORD) has a requirement for Non-Lethal Payloads to be developed.

-The USMC NLW IPT conducted July 2003 further developed the requirements IOT write CDD.

-Technology development and experimentation on NLW Payloads will begin 1st Quarter FY04 IOT narrow requirements for CDD.

-Draft CDD specific to NLW Payloads to be prepared for staffing by end of 1st Quarter FY04.

AAO:

I MEF	42	DMFA	
II MEF	36	WRMR	
III MEF	23	NALMEB	
SMCR	39	Other	
Supt Est	16		
		Total	**156**

RELATED SYSTEMS:

<u>OUTSTANDING ISSUES</u>: NA